USSR/Human and Animal Morphology. Skeleton.

S

Abs Jour: Ref Zhur-Biol., No 15, 1958, 69653.

Author : Gurfinkel' V.S., Yakobson Ya. S.

Inst : Central Scientific Research Institute for Prostheses.
Title : Certain Peculiarities of Movement in the Knee Joint.

Orig Pub: Inform. byul. Tsentr. n.-i. in-ta protezir. i protezostr.,

1957, No 2. 21-24.

Abstract: X-ray cinematographic studies were made of motion in the knee joint in five healthy subjects and six subjects with stumps below the knee. In all cases, at the onset of bending (from zero to about ten degrees) there is rolling without sliding. Further bending (to 30-40 degrees) is characterized primarily by sliding, after which the movement involves both sliding and rolling (30-50 degrees). At angles up

Card : 1/2

APPROVED FOR RELEASE! 09/20/2005keleCIA-RDP86-00513R000617430004-6"

Abs Jour: Ref Zhur-Biol., No 15, 1958, 69653.

to 70-90 degrees movement is achieved chiefly by rolling, and with further flexion the movement is primarily sliding. In extension of the joint, sliding is seen more frequently than in flexion. The crucial ligaments of the knee joint during flexion are seen to be alternately in tense, then in relaxed states. The magnitude of rotation of the knee with respect to the thigh in flexion and extension averages five to eight degrees. The conclusion is reached that movement in the knee joint is determined by the form of the apposed joint surfaces, the structure and functions of the ligaments, and the nature of application of muscular forces.

Card : 2/2

GurFinkel V.S.

AUTHORS:

Breydo. M., Engineer, Gurfinkel', V., Physician 29-4-2/20

TITLE:

Machine is Controlled by Thought (Mashinov upravlyayet mysl')

PERIODICAL:

Tekhnika Molodezhi, 1958,

Nr 4; pp. 3-4 (USSR)

ABSTRACT:

A curious device can be seen in the Soviet revilion at the world exhibition in Brussels. It is an artificial hand with a bracelet fixed to a cable. A man who puts this bracelet round his wrist, is able to make this hand a balled fist and to make it carry out other small grasps too. Only by this thoughts this miracle was constructed for the first time in the Central Institute for Scientific Researches for Artificial Limbs in Moscow, in 1957. Then, only the direction and the speed of the finger-movements could be influenced by one's thoughts. The exposed model is substantially refined, Numerous inventions in the most various fields of science by the Soviet specialists A. Ye. Kobrinskiy, A. Ya. Sysin, M. L. Tseytlin, Ya. S. Yakobson and by the authors of this article were applied for its manufacture. The mechanism is based on the principle of changes of the electric potential, the socalled bic-current in the human organism. A socalled "mechanical hand" for manipulating with insanitary, especially with radioactive substances was

Card 1/3

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Machine is Controlled by Thought

29-4-2/20

exposed at the All Union Industrial Exhibition at the time. Instruments reacting more accurately and finer than the "mechanical hand" could be made by means of a bioelectrically controlled manipulator. Due to the fact that the amplified bio-current can also be conducted per wire and radio, men would be able to effect operations at a distance of thousands of kilometers without moving from the desk in their office. Such "bio-current-hands" would be able e.g. to equip bathisperes sunk to great depths astronautical craft, atomic laboratories and many other things. The application of bioelectrical systems is of greatest interest with artificial limbs. The manufacture of a bioelectrical artificial hand is in progress at present. The application of such artificial limbs with men with amputated arms and legs would be equally promising. The application of bioelectric control for medical purposes is very prospective. A gymnastic apparatus which is self-controlled by the patient, as well as a respirator could be used in the case of polyomelitis. The self-controlled respirator would be of special importance since its use would cause the respiration of the patient to become active which accelerates the functions lost by the nervous cells. The biocurrent of the respiratory muscle could also serve for controlling the respiratory

Card 2/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

Machine is Controlled by Thought

29-4-2/20

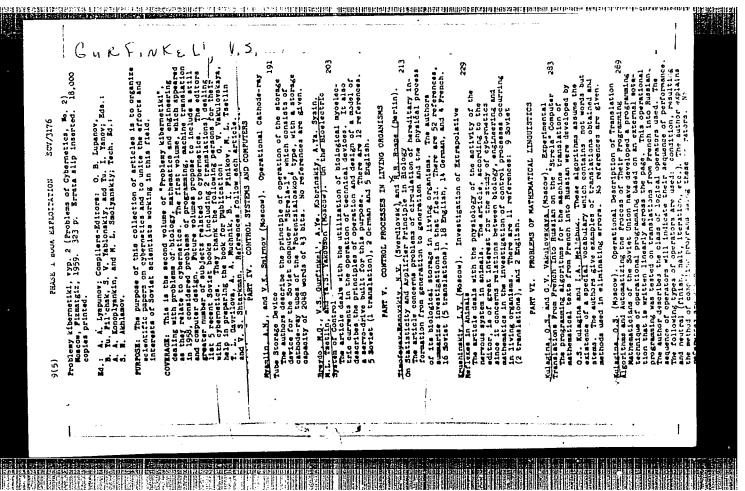
apparatus with diving. The application of bio-current is also tempting in the complex control of machinery. It could be imagined that a pilot makes his aircraft effect the most complicated changes of position only by his reasoning. The advantage of such a control consists in that a more rapid and more accurate reaction is achieved, since the decelerating muscel-reaction is avoided. There are 2 figures.

AVAILABLE:

Library of Congress

1. Artificial limbs-USSR 2. Exhibitions-Brussels-USSR 3. Biotechnology-USSR 4. Scientific research-USSR

Card 3/3



VINOGRADOVA, T.S.; starshiy nauchnyy sotrudnik; GURFINKEL', V.S., starshiy nauchnyy sotrudnik; SLAVUTSKIY, Ya.T., mizdshiy nauchny, sotrudnik

Electromyographic examinations in a prosthetic orthopedic clinic. Trudy Ukr. nauch.-issl. inst. ortop. i travm. no.15: 231-241 *59 (MIRA 16:12)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta protezirovaniya i protezostroyeniya.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

GURFINKEL', Vas.; IVANOV, D.I.; IVANOV, A.Ye.; MALKIN, V.B.

Use of Na²⁴ in studying blood circulation during respiration under increased pressure. Biofizika 4 no. 4:498-503 159. (MIRA 14:4)

1. Nauchno-issledovatel'skiy institut aviatsionnoy meditsiny, Moskva.
(SODIUM-ISOTOPES) (OXYGEN-PHYSIOLOGICAL EFFECT)
(BLOOD-CIRCULATION)

KOBRINSKIY, A.Ye.; BREYDO, M.G.; GURFINKEL', V.S.; POLYAN, Ye.P.;
SLAVUTSKIY, Ya.L.; SYSIN, A.Ya.; TSETLIN, M.L.; YAKOBSON, Ya.S.

Research on the development of bioelectric control systems.
Trudy Inst.mash.Sem.po teor.mash. 20 no.77:39-50 '59.
(HIRA 13:4)

(Electrophysiology)

GURFINKEL', V.S.; ISAKOV, P.K.; MALIKIN; POPOV, V.I.

Coordination of posture and movements in man under conditions of increased and lowered gravitation. Biul.eksp.biol.i med. 48 no.ll; (MIRA 13:5)

12-18 N '59.

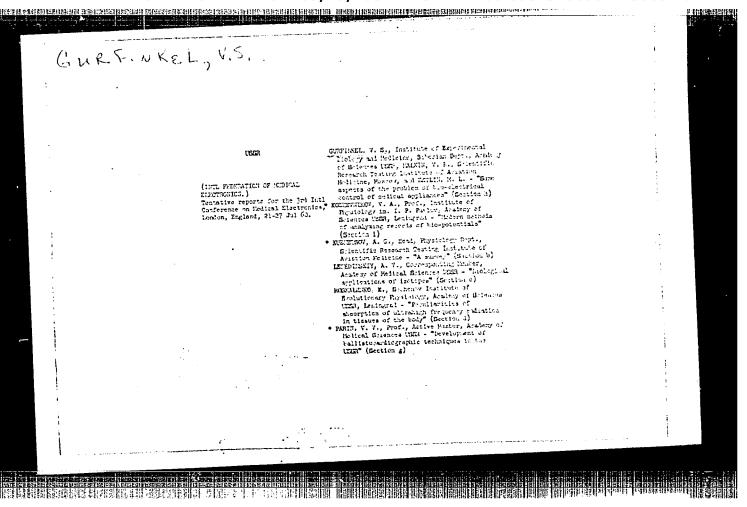
1. Iz Instituta eksperimental'noy biologii i meditsiny sibirskogo otdeleniya Akademii nauk SSSR (dir. - prof. Ye.N. Meshalikin), Novoshirsk. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.

Parinym.

(GRAVITATION)

(POSTURE physiol.)

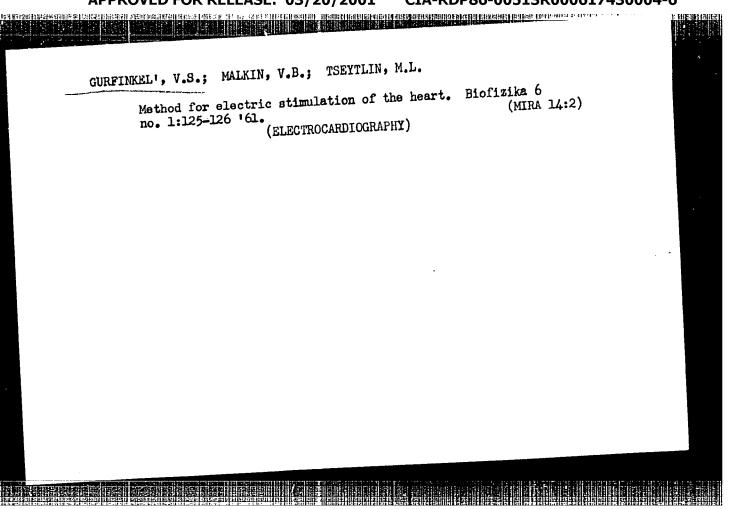
(MOVEMMETS physiol.)



Our Gurfinkel', V. S.

Doc Med Sci - (diss) "Posture /stoyaniye/ of healthy people and people prosthesized after amputation of the lower extremities." people prosthesized after amputation of the lower extremities." Moscow, 1961. 25 pp; (Academy of Medical Sciences USSR); 300 Moscow, 1961. 25 pp; (Academy of Medical Sciences USSR); 300 copies; price not given; list of author's works on p 25 (15 entries); (KL, 7-61 sup, 255)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"



GURFINKEL V. S.

MISSZALKIN, B. N. (Nowosybirsk); FRANCEW, W. I. (Nowosybirsk); GULDWANCM, J. N. (Nowosybirsk); GULDWANCM, J.

GURFINKEL', V.S. (Moskva, A-319, 1-y TSvetkovskiy per., d.19, kv.43);
MALKIN, V.B.; TSJILII, M.L.; KHUDYAKOV, A.V.

Roentgenography of the heart during phases of the cardiac cycle selected at random. Vest. rent. i rad. 36 no.6:25-28 N-D '61.

(Mina 15:2)

1. Iz Instituta eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR i Matematicheskogo inatituta imeni V.A.Steklova AN SSSR.

(HEART_RADIOGRAPHY)

VLASOV, Yuka.; GURFINKEL', V.S.; IVANOV, D.I.; MALKIN, V.B.; POPOVA, Ye.O.; SHIK, M.L.

Hemodynamic studies during the respiration of 02 under excessive pressure. Biul. eksp. biol. i med. 51 no.4:22-27 Ap '61. (MIRA 14:8)

1. Iz Instituta eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N.Meshalkin) Sibirskogo otdeleniya AN SSSR, Novosibirsk.

Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym.

(BLOOD_CIRCULATION) (RESPIRATION)

(ATMOSPHERIC PRESSURE_PHYSIOLOGICAL EFFECT)

GURFINKEL, V.S.; KAPULLER, L.L.; SHIK, M.L.

Significance of sphincters of the orifices of the pulmonary veins in man. Biul. eksp. biol. i med. 51 no.6:14-17 Je '61. (MIRA 15:6)

1. Iz Instituta eksperimental'noy biologii i meditsiny Sibirskogo otdeleniya AN SSSR (dir. - prof. Ye.N. Meshalkin) i 52-y gorodskoy klinicheskoy bol'nitsy (glavnyy vrach P.S. Petrushko). Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym. (PULMONARY VEIN)



GURFINKFL', V.S., MALKIN, V.B.; TSETLIN, M.L.; KHUDYAKOV, A.V.

Use of bioelectric signals of the heart for the purpose of control.

Vop. pat. i reg. org. krov. i dykh. no.1:33-37 '61. (MIRA 18:7)

VINOGRADOVA, T.S.; VLASOV, Yu.A.; GURFINKEL!, V.S.; SHIK, M.L.

Clinical and physiological parallels in congenital and acquired heart defects. Vop. pat. 1 reg. org. krov. 1 dykh. no.1:77-87 '61.

(MIRA 18:7)

GURFINKEL', V.S.

Bioelectric control in medicine. Vest. AMN SSSR 19 no.2:33-38
(MIRA 18:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

GURFINKEL', V.S.; KANDEL', E.I.; KOTS, Ya.M.; SHIK, M.L.

Mechanism of the origination of tremor in parkinsonism. Zhur. nevr. i psikh. 65 no.5:645-651 '65. (MIRA 18:5)

l. Institut biologicheskoy fiziki AN SSSR i Ordena Trudovogo Krasnogo Znameni Institut neyrokhirurgii im. Burdenko AMN SSSR, Moskva.

GURFINKEL', V.S.; PAL'TSEV, Ye.I.

Effect of the state of the segmental apparatus of the spinal cord on a simple motor reaction. Biofizike 10 no.52855-860 165.

(MIRA 18:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

GEL'FAND, I.M.; GURFINKEL', V.S.; TSETLIN, M.L.

Some considerations on the tactics of the formation of movements. Dokl. AN SSSR 139 no.5:1250-1253 Agg. 161.

(HIRA 14:8)

1. Institut biologicheskoy fiziki AN SSSR. 2. Chlenkorrespondent AN SSSR (for Gel'fand).

(MOVEMENT, PSYCHOLOGY OF)

GURFINKEL!, V.S., otv. red.; VAL'TER, M.[Valters, M.], red.; ROZE, A., tekhn. red.

[Electronics in medicine] Elektronika v meditsine; sbornik materialov. Riga, TSentr. biuro tekhn. informatsii Latviiskoi SSR, 1962. 260 p. (MIRA 16:11)

l. Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi im. A.S.Popova.
(MEDICAL ELECTRONICS)

S/030/62/000/008/005/005 I015/I242

AUTHOR:

Gurfinkel', V.S., Candidate of Medical Sciences

TITLE:

Cybernetics in biology

PERIODICAL: Akademiya nauk SSSR. Vestnik, no.8, 1962, 125-128

TEXT: The biological aspects of cybernetics were discussed at a session of the Academy of Sciences of the USSR, on April 3-5. Academician N.M.Sisakyan, secretary of the Biology section, pointed out in his opening speech that cybernetics, though a young science, has already contributed to the progress of biology.

A.I.Berg talked on "Cybernetics and the Progress of Science and Technology." He mentioned the fact that in the USSR cybernetics is developing on a firm basis of dialectical materialism, and that it was called upon by KPSS to contribute to the rapid development of science and technology. V.V.Parin discussed the application of cybernetics to biology and medicine, and mentioned the artificial heart, lungs, and kidneys as examples. The role of mathematics,

Card 1/2

S/030/62/000/008/005/005 I015/I242

Cybernetics in biology

biophysics, biochemistry, and engineering in modern biological research was discussed by many members of the Academy. A project on the use of electric computers in the solution of important biological problems has been planned by M.A.Ayzerman and M.M.Bongard. V.I.Varshavskiy, I.P.Vorontsova, and M.L.Tsetlin proposed a mathematical model of behavior.

Card 2/2

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GEL'FAND, I.M.; GURFINKEL', V.S.; KOTS, Ya.M.; TSETLIN, M.L.; SHIK, M.L.

Synchronization of mctor units and its model representation. Biofizika 8 no.4:475-487 163.

(MIRA 17:10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

VLASOY, Yo.A.; GURFINKEL!, V.S.; SHIK, M.L.

Model of an aperiodic ballistocardiography and the description of a aperiodic ballistocardiogram in healthy persons. Biul. eksp. biol. 1 med. 57 no.6:103-106 Je '64. (MIRA 18:4)

1. Institut eksperimental'noy biologii i meditsiny (dir. - prof. Ye.N. Mashalkin) Sibirskogo otdeleniya AN SSSR, laboratoriya fiziologii (zav. - kand.med.nauk T.S. Vinogradova) i Institut biofiziki (dir. G.M. Frank) AN SSSR.

GELTRAND, I.M.: GRECHMERL, V. M.: ETS., Ya.M.; FRINDALL, V.E.;
FORTIN, Mel.: SHIK, Mel.

Study of postarel act. Vity. Biofizika 9 nc.6.716-717 (nd.
(MIRA 18:7)

1. Institut biologica skoy fiziki AN SSSR, Scszva.

GAAZE-RAPOPORT, M.G., otv. red.; YAKOBI, V.E., otv. red.;

BERG, A.I., red.; GURFINKEL', V.S., red.; KCVALEVSKIT,

V.A., red.; KLEYNENBERG, S.Ye., red.; MANTEYFEL', B.P.,

red.; NAUMOV, N.P., red.; PARIN, V.V., red.; POLYANTSEV,

V.A., red.; SOTSKOV, B.S., red.;

[Bionics] Bionika. Moskva, Nauka, 1965. 475 p. (MIRA 18:12)

1. Akademiya nauk SSSR. Nauchnyy sovet po kompleksnoy probleme.

"Kibernetika."

CUPFINKEL', V.S.; KOTS, Ya.M.; KRINSKIY, V.I.; SHIK, M.I.

Method of evaluating the state of the inhibition apparatus in human spinal cord. Biul.eksp.biol. 1 med. 59 nc.5:15-16 '65.

(NIRA 18:11)

1. Teoreticheskiy otdel (zav. - chlen-korrespondent &N SSSR I.M.Cel'fand) Instituta biologicheskoy fiziki (direktor : chlen-korrespondent &N SSSR G.M.Frank) AN SSSR, Mcskvs.

Submitted December 12, 1963.

GURFRIKEL', V.S.; KUDLL', S.I.; KO.S, Ye.M.; S.TE, A.L. (Mr. va.)

Use of tromography for productions of the officativeness of ourginal trentment of perhiamenta. Vop. metrodistr. 27 re A.:
1.-6 Jl-ag'63 (MRE 17:2)

1. Hauchno-isology tellading orders Trudovogo Krasnogo mameni institut neyroldstrangil læmi N.M. Eurdenbo AME SSSR i Institut biofizikk Ar SSSL.

GURFINKEL!, Viktor Semenovich; KOTS, Yakov Mikhaylovich; SHIK,
Mark L'vovich; KOLPAKOVA, Ye.A., red.; TSUZZER, T.S., red.

[Regulation of human posture] Reguliateiia pozy cheloveka.

Moskva, Nauka, 1965. 255 p. (MIRA 18:6)

ACCESSION NR: AP4012878

5/0248/64/000/002/0033/0038

AUTHOR: Gurfinkel:, V. S.

TITLE: Bioelectric control in medicine

SOURCE: AMN SSSR. Vestnik, no. 2, 1964, 33-38

TOPIC TAGS: bioelectric control device, bioelectric potential, EEG, EKG, skeletal muscle biopotential, automatic control device, EKG data analysis device, cardiosynchronizing device, cardiostimulator, medical automatic control device, hypoxia control device, epileptic paroxysm, anesthesia control device

ABSTRACT: Three groups of bioelectric control devices based on brain, heart, and skeletal muscle biopotentials are discussed. The first group uses brain biopotentials for EEG and includes devices which automatically indicate the onset of hypoxia, anesthesia stages, and appearance of epileptic paroxysms. The second group uses heart biopotentials for EKG and includes various cardiosynchronizing devices which automatically switch on other equipment depending on the heart cycle. RITM-1, a device developed for continuous analysis of EKG data, automatically records any abnormal shifts, flashes danger Cord 1/2

ACCESSION NR: AP4012878

signals, switches on necessary equipment, and has been successfully used in postoperative care of patients. Others in this group are a device which automatically switches on a cardiostimulator after 10-15 successive cardiocycles indicate S-T interval shifts, and a device which automatically assists the heart in circulating blood when the EKG indicates difficulties. The third group uses skeletal muscle biopotentials in active prostheses when the muscles are mechanically weak as in paralysis or are completely absent as in amputation. Artificial lungs also belong to this group. With the extensive development of bioelectric devices and their wide range of application, the problem now is to accelerate their use in standard medical practice. Orig. art. has: 3 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics, AN SSSR)

SUBMITTED: 00

DATE ACQ: 02Mar64

ENCL: 00

SUB CODE: AM

NO REF SOV: 000

OTHER: 000

Cord 2/2

GURGAL, V.1.

AID P - 5385

Subject

: USSR/Engineering

Card 1/1

Pub. 103 - 15/28

Author

: Gurgal', V. I.

Title

: High-production cutters

Periodical

: Stan. 1 instr., 9; 31-32, ES:1956

Abstract

The author describes three cutters of his own design: the shearing, stepped, and multi-cutting edge cutters which have been used at the

L'vov (Ukrainian SSR) Plant for Power Pressing Machines. Three

drawings.

Institution : As above

Submitted

: No date

CIA-RDP86-00513R000617430004-6" **APPROVED FOR RELEASE: 03/20/2001**

GURGAL' Volctimir Losipovich; VITVITS'KIT, M., redaktor; MEDOVIZ, S.,
teknnicheskiy redaktor

[Methods of increasing labor productivity in lathe work] Metody
pidvyshchennia produktyvnosti pretsi pri tokarnii obrobtsi. L'viv,
Knyshcvo-zhurnal'ne vyd-vo, 1957. 44 p.

1. Vidomiy tokar-novator L'vivs'kogo savodu privodnykh presiv,
deputst Verkhovnoi Radi URSR (for Gurgal')

(Turning)

GURGAL', V., Geroy Sotsialisticheskogo Truda

Everything is our concern. Sov.profsoiuzy 17 no.10:24-25 My 161. (MIRA 14:5)

1. Rukovoditel' brigady kommunisticheskogo truda L'vovskogo mashinostroitel'nogo zavoda.

(Lvov-Machinery industry) (Socialist competition)

GUNGAL', 'ladimir Iosifovich [Nurhal', V.O.], Geroy Sotcialisticheskogo Truda, tokar'; DOROSHENKO, M., red.; EURKATOVSKAYA, TS.

[Eurkatovs'ka, TS.], tokhn. red.

[Twenty days beyond the ocean]20 dniv za okeanom. L'viv,
Knizhkovo-zhurnal'ne vyd-vo, 1962. 38 p. (MIRA 15:11)

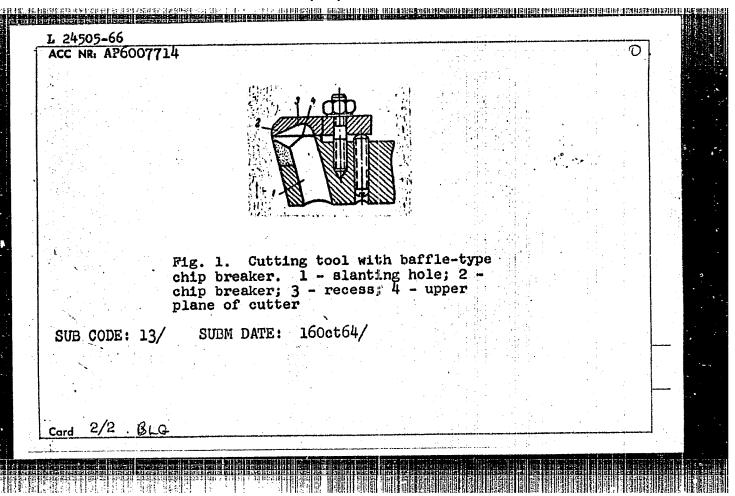
1. L'vovskiy mashinostroitel'nyy savod (for Gurgal').

(Canada—Description and travel)

(United States—Description and travel)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

and the property of the angle of the property of the state of the st ENT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l) ACC NR: AP6007714 UR/0413/66/000/003/0113/0113 SOURCE CODE: AUTHOR: Gurgal', V. I. 21 B ORG: none TITLE: Cutting tool with a baffle-type chip breaker. Class 49, SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1966, 113 TOPIC TAGS: cutting tool, chip breaker, cutter, metal chip, machine tool ABSTRACT: An Author Certificate has been issued for a cutting tool with a baffle-type chip breaker. To make the unit compact, the cutter head is designed with a slanting hole for deflecting the chip, while the chip breaker, shaped like a plate with a recess on the supporting side, is mounted on the upper plane of a bracket and can be adjusted along the axis of the cutter (see Fig. 1) Card 1/2 621,9.025.69



GURGENIDZE, A., Gercy Sovetskogo Soyusa

Members of the Society for the Fromotion of Defense, Aviation,
and Chemical Development of the U.S.S.R. as in automobile clubs.
Za obor. 23 no.14:5 D '47.

1. Machal'nik otdela spetspodgotovki i protivovozdushnoy i protivokhimicheskoy oborone TSentral'nogo soveta Oscaviakhima Gruzii.

(Georgia—Automobile drivers)

Resides transferred to a subscription of the control of the manufactural control of the subscription of th BURGENIDEE, FEYERMARK, M.M., inzhener; YERMAKOV, A.S.; STOLYAREVSKIY, N.A., inzhener; GOL DENBLAT, B.I., inzhener; GURGENIDZE, D.P., inzhener; KOZLOV, A.P., tekhnik; GORBACHEV, N.I., tekhnik; GRINBERG, B.V., inzhener. Protection of substation power transformers in industrial plants. (MIRA 10:10) Prom.energ. 12 no.10:29-33 0 157. 1. Khar kovskoye otdeleniye Gosudarstvennogo Proyektnogo Instituta Tyazhpromelektroproyekt (for Feyermark). 2. Sverdlovskiy podshipnikovyy zavod (for Yermakov). 3. Proyektnyy institut, Odessa (for Gol'denblat). 4. Ust'-Kamenogorskiy svintsovo-tsinkovyy kombinat (for Stolyarevskiy). 5. Tbilisskiy pryadil'no-trikotazhnyy kombinat (for Gurgenidze). 6. Kamvol'nyy kombinat, Minsk (for Grinberg). (Electric transformers)

GURGENIDZE, G. I. -- "The Bakhmaro Spa." Georgian State Publishing House
for Medical Literature. Tbilisi State Medical Inst. Tbilisi, 1955.
(Dissertation for the Legree of Candidate in Nedical Sciences).

So.: Knizhnaya Letopis', No. 2, 1956.

GURGENIDZE, G.K.

Geographical distribution of the population in Lower
Earteliniya. Soob. AN Gruz. SSR 18 no.1:47-54 Ja '57.

(MLRA 10:5)

1. Akademiya nauk Gruzinskoy SSR, Institut geografii in.
Vakhushti, Tbilisi. Predstavleno akademikom A. Dzhavakhishvili.

(Georgia--Migration, Internal)

GURGENIDZE, G.S. Treating catarrhs of the upper respiratory tracts with mineral water from Sukhumi Spring No.2 (preliminary report). Sbor. trud. Med.nauch. (MIRA 14:10)

ob-vo Abkh. 2:143-144 159.

1. Iz otorinolaringologicheskogo otdeleniya Sukhumskoy gorodskoy bol'nitsy imeni V.A.Shervashidze (glavnyy vrach N.Ye.Bendeliani).

(SUKHUMI—HEALTH RESORTS, WATERING PLACES, ETC.) (CATARAH)

CIA-RDP86-00513R000617430004-6" APPROVED FOR RELEASE: 03/20/2001

GURGENIDZE, G.S.

Use of hemostatic gauze in otorhinolarngology. Sbor. trud. Med.
nauch. ob-vo Abkh. 2:258-259 159.

1. Iz otolaringologicheskogo otdeleniya Sukhumskoy gorodskoy bol'nitsy
imeni V.A.Shervashidze (zav. - otdeleniyem G.S.Gurgenidze, glavnyy
vrach N.Ye.Bendeliani).

(OTOLARYNGOLOGY)

(BANDAGES AND BANDAGING)

37404 s/062/62/000/005/007/003 B110/B101

Kolesnikov, G. S., Gurgenidze, G. T., and Li: Fing-ying

AUTHORS: TITLE:

Carbochain polymers and copolymers. 48. Synthesis of graft copolymers with different graft frequency and length of the

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh PERIODICAL:

nauk, no. 5, 1962, 897-902

TEXT: The dependence of the properties of graft copolymers on their structure was studied by way of the polycondensation of &-hydroxyenanthic acid with the copolymer obtained from styrene and A-cartoxy-Nhexyl methacrylate [CH2=C(CH3)COO(CH2)6COOH]. By polymerizing mixtures of styrene and -carboxy-n-hexyl methacrylate (I) of different composition, copolymers with different content of I were obtained. Their carboxyl groups polycondensed with alighatic w-hydroxycarboxylic acids, whereby the mean statistical distance between the possible places for the grafting of the polyester side chains could be modified. In the copolymerization of I with styrene it was established that the mean statistical distance

Card 1/3

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

S/062/62/000/005/007/008 B110/B101

Carbochain polymers and copolymers ...

between the carboxyl groups grew with the styrene content. By changing the ratio between this copolymer and the w-hydroxyenanthic acid in polycondensation, graft copolymers were obtained in which the mean statistical length of graft side chains could be determined by the carbon content. In N₂ current polycondensation was performed in chlorobenzene in the presence of 2% p-toluene sulfonic acid as catalyst (35 kms) at 13-135°C, and the reaction products were precipitated with methanol. The mean statistical length reads as follows:

a = (y508m/n+15211-104.14m/n·[C]-214.25·[C])/(128.17·[C] - 8407), where C] = carbon content in the graft copolymer in %; m/n = ratio styrene: I. In this connection, the length of the side chains was found to depend not on the initial copolymer but on the ratio of ω-hydroxyenanthic acid to number of carboxyl groups. The Huggins constant grows with the coefficient of side chain polymerization and is higher in graft copolymers than in the respective initial copolymers, since the symmetry of the macromolecule in solution also grows with the side chain length. The X-ray structural analysis revealed that the degree of structural ordering Card 2/3

Carbochain polymers and copolymers ...

\$/062/62/000/005/007/008 B110/B101

and the state of t

in graft copolymers rises with the length of graft side chains. No matter what the graft frequency, a good ordering degree is found with a coefficient of side chain polymerization larger than 10. Conclusions: Grafting of short polyhydroxyenanate chains shifts the thermomechanical curves to higher temperatures as compared with initial copolymers. Thus, the fusion temperature of graft copolymers of the type described rises at optimum graft frequencies and coefficients of side chain polymerization. In the methanolysis of some graft copolymers it was found that the lengths of macromolecules remain the same during the synthesis of graft copolymers. ω -carboxy-n-hexyl methacrylate, polymerized for 20 hrsat $70^{\circ}\mathrm{C}$ in the presence of 2% by weight of benzoyl peroxide, was insoluble in benzene, chloroform, alcohol, and other organic substances, and softened at -70 °C. There 2 figures and 3 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the

Academy of Sciences USSR)

SUBMITTED:

December 15, 1961

Card 3/3

35001 5/190/62/004/005/021/023 B12:/B101

15.8070

AUTHORS:

Kolesnikov, G. S., Gurzenidze, G. T.

TITLE:

Carbon chain polymers and copolymers. XXXVIII. Interaction of isotactic polymethyl methacrylate with polyethylene azelate

PERICUICAL: Vysokomolekulyarnyje mojedineniya, v. 4, no. 3, 1962, 452 -454, 386

TEXT: Isotactic polymethyl methacrylate (PMMA) was prepared by polymerizing nothyl methacrylate in toluene in the presence of butyllithium; the prepared product was heated in methyl ethyl ketone for 20 hours. The intrinsic viscosities of both heated and unheated PAMAN were found to be 0.52 in both cases. Both thermomechanical properties and X-ray data show a higher degree of orderliness in heated PARAA. Polyethylene azelate (PEA) was synthesized from equimolar amounts of ethylene plycol and azelaic acid reacted first in a current of dry nitrogen, and then at a residual pressure of 2 - 3 mm Hg. The intrinsic viscosity of the product was found to be 0.18. Equilibrium quantities of heated isotactic PEMMA and PEMA were dissolved in chlorobenzene, a few drops of concentrated HCl were added (pH ~5), Card 1/3

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S/190/62/004/003/021/023 B124/B101

Carbon chain polymers and ...

and the mixture was heated to 120°C in a current of dry, pure nitrogen for 22 hours. The reaction products were precipitated with n-hexane, dried to constant weight at 50°C in vacuo, dissolved in toluene and reprecipitated by progressive dilution with n-hexane, whereby three fractions were obtained. The first of these fractions representing about 60% of the overall reight of the product was washed three times with methyl ethyl ketone and heated in methyl ethyl ketone for 20 hours. The intrinsic viscosity of the grafted copolymer which was found to be 0.42 is lower than that of the starting PAMA which is 0.52; the intrinsic viscosity of PAMA recovered from the grafted copolymer by methanolysis was 0.52. The decrease of the intrinsic viscosity on grafting lateral polyester chains to PANA is due not to degradation of the main polymer chain, but to a change of the PAMA macromolecule in solution which, in turn, is assumed to be due to the interaction of the lateral polyester chains leading to a more symmetrical three-limensional shape of the polymer molecule. This fact is reflected by a value of 0.46 of the Huggins constant for the initial PMMA and PMMA recovered from the grafted copolymer by methanolysis, while this value is 0.65 for the grafted copolymer. The lowered softening temperature of the grafted copolymer and the increased softening temperatures of the most isotactic polymers Card 2/3

Carbon chain polymers and ...

S/190/62/004/003/021/023 B124/B101

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which are both due to heating can be explained to be a consequence of the three-dimensional orientation of the main polymethylmethacrylate chain which leads to a decrease of the orderliness of packets consisting of lateral polyester chains which is reflected by the decrease of the softening temperature of the grafted copolymer. This change of orderliness of the bundles is not significant enough to be visible on usual X-ray diagrams, but it is evident from the thermomechanical properties. There are 2 figures and 7 references: 6 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: M. L. Huggins, J. Amer. Chem. Soc. 64, 2716, 1942.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR

(Institute of Elemental Organic Compounds of the AS USSR)

SUBMITTED: March 15, 1961

Card 3/3

"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000617430004-6

37913 S/251/62/028/003/001/001 1018/1218

Kolesnikov, G. S. and G. T. Gurgenidze.

Title:

COPOLYMERIZATION OF METHACRYLATE ω-OXYENANTHIC ACID POLYESTER WITH ACRYLONITRILE, STYRENE, AND VINYL ACETATE

Soobshcheniya Akademii nauk Gruzinskoy SSR. 28(3), 1962, 297-303

Text. Studies were made on the following systems: methacrylate ω-oxyenanthic acid polyester (MPOE) -acrylonitrile; MPOE-styrene; and MPOE-vinyl acetate. The synthesis of MPOE and of polyoxyenanate are described. Thermomechanical and chemical properties of polyoxyenanate are given. The polyester was prepared by polycondensation of ω -oxyenanthic acid at first in oxygen-free stream of nitrogen and then in vacuum of 3-4 mm. The product was dissolved in toluene and an excess of methacrylic acid chloroanhydride at 10-15°C added. The reaction mixture was kept for 5-6 hours. The product was precipitated by n-hexane and dried at room temperature to constant weight. Polymerization of MPOE with acrylonitrile yielded copolymers of various composition. Copolymerization was carried out in the presence of 0.2M% of azo-iso-butyric acid dinitrile (in M% from acrylonitrile) at 70°C during 15 hours in vacuum sealed ampules. The copolymer was dissolved in dimethylformamide, precipitated by methanol and dried. MPOE excess can be removed by extraction with boiling benzene. Analysis, by N determination. Thermomechanical properties of the copolymet

Card 1/2

COPOLYMERIZATION....

S/251/62/028/003/001/001 I018/I218

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are described. Copolymerization with styrene was carried out in the presence of 1.7 weight % (from styrene) of benzyl peroxide, at 70° C for 15 hours in vacuum sealed ampules. The product was dissolved in benzene, precipitated by methanol and dried. Copolymer composition determined by C content. Copolymerization of MPOE with vinyl acetate was carried out in the presence of 0.2M% (from vinyl acetate) of azo-iso-butyric acid dinitrile at 70° C for 30 hours in vacuum sealed ampules. Copolymer precipitated from 2% acetone solution by n-hexane, washed with n-hexane and benzene and vacuum dried. Composition determined by C content Copolymerization of MPOE with acrylonitrile, styrene, and vinyl acetate yielded products with side chains of varying purity. Their properties in solutions and condensed form were determined. There are 3 figures and 3 tables.

Association. Akademiya nauk Gruzinskoy SSR Institut priklodnon khimii i e'lektrokhimii. (AN Georgian

SSR Institute of Applied Chemistry and Electrochemistry).

Submitted: April 12, 1961.

Card 2/2

ESTREMENT OF THE PROPERTY OF T KOLESNIKOV, G.S., GURGENIDZE, G.T. Carbochain polymers and copolymers. Report No.49: Graft copolymers obtained from methacrylate of w-oxyenanthic acid polyester and methacrylyltriethylstannane or methacrylyltriethylgermane. Izv.AN SSSR.Otd.khim.nauk no.7:1275-1279 Jl 162. (MIRA 15:7) 1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Heptanoic acid) (Tin organic compounds) (Germane)

S/190/62/004/011/C09/014 B106/B101

AUTHORS:

Kolesnikov, G. S., Gurgenidze, G. T.

TITLE:

Carbochain polymers and copolymers. XLII. Graft copolymers from acrylonitrile and ω -hydroxyoenanthic polyester metha-

crylate

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 11, 1962,

1709 - 1713

TEXT: Graft copolymers were prepared by bringing acrylonitrile into reaction with the ω -hydroxyoenanthic polyester methacrylate I; molecular weight 6000. The copolymerization was carried out in bulk (in the presence of azoisobutyric dinitrile for 15 hrs at 70°C in vacuo) and in emulsion (in the presence of ammonium sulfate for 6 hrs at 50°C; soap as emulsifier). Intrinsic viscosity, Huggins' constant, and the ratio emulsifier). Intrinsic viscosity, Huggins' constant, and the ratio polyester/acrylonitrile of the graft copolymers obtained were determined. When the content of I increases in the initial mixture, the number of when the content of I increases in the initial mixture, the number of grafted side chains in the copolymer also increases. A rising frequency of grafting is associated with greater symmetry of the macromolecules in solution (increase of the Huggins' constant). This is due to interaction Card 1/2

Carbochain polymers...

5/190/62/004/011/009/014 B106/B101

of the polyester side chains. When the side chains are split off by methanolysis the Huggins constant is reduced and at the same time the intrinsic viscosity of the copolymer is increased. Hence, the decrease in symmetry of the macromolecules in solution is not caused by degradation of the main chain of the graft copolymer. The yield A of the products of methanolysis is consistent with the values calculated by the equation $\Lambda(\%) = 53Q/(53Q + 6000)$ (Q is the distance between the grafted side chains of the polyester, expressed by the number of elementary links of acrylonitrile). The grafting of I side chains to polyacrylonitrile results in a decrease of the softening point of the polymers, this decrease being the more marked, the smaller the value of Q. Analysis of the x-ray pictures of grafted copolymers with different grafting frequencies showed that the structural ordering of the copolymer decreases with increasing Q. The reason evidently is that with increasing Q the ordered regions formed by interaction of the polyester side chains in the condensed phase decrease in proportion to the total volume of the graft copolymer. There are 3 figures and 2 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute

of Elemental Organic Compounds AS USSR)

July 6, 1961

S/062/62/000/011/019/021 B117/B101

AUTHORS:

Kolesnikov, G. S., and Gurgenidze, G. T.

TITLE:

Synthesis of graft copolymers from isotactic polymethyl

methacrylate and polyhydroxyenanate.

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

THE STREET HER THE STREET THE STREET STREET, S

nauk, no. 11, 1962, 2097-2098

TEXT: Crystalline graft copolymers with heterogeneous hydrocarbon chains were synthesized from the isotactic polymethyl methacrylate and from the polyhydroxyenanate obtained by polycondensation of ω -hydroxyenanthic acid molecular weight, 7400; intrinsic viscosity, 0.22 dl/g (benzene, 20°C)) in chlorobenzene solution at 120°C under an atmosphere of nitrogen. The yield of the reaction product precipitated from a 4% solution in C6H5Cl having

eight times the volume of the n-hexane amounted to 85% of the total weight of the compounds used. After precipitation with n-hexane, three fractions were separated at 20°C by coarsely fractionating a 2% benzene solution of the reaction product. Fractions I and II were found to be graft copolymers containing polyhydroxyenanate and having side chains with

Card 1/2

S/062/62/000/011/019/021 B117/B101

Synthesis of graft copolymers from...

different grafting frequencies. X-ray structural analysis and the thermomechanical properties of fraction III indicated that it corresponded to the polyhydroxyenanate. The intrinsic viscosities of fractions I and II are lower than that of the isotactic polymethyl methacrylate (0.45 and 0.32 dl/g, respectively, as compared to $[\eta] = 0.46$ dl/g of the polymethyl methacrylate); their Huggins constants, however, are higher (0.55 and 0.80, respectively, as compared with 0.46 of the polymethyl methacrylate) while their softening points are lower. The fact that the values of fraction II exceed those of fraction I is ascribed to its ordered structure. Moreover, it is more readily soluble in benzene and n-hexane, owing to the higher grafting frequency of its side chains. There are 1 figure and 1 table.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR); Institut prikladnoy khimii i elektrokhimii Akademii nauk GruzSSR (Institute of Applied Chemistry and Electrochemistry of the Academy of Sciences GSSR)

SUBMITTED:

June 29, 1962

Card 2/2

S/C62/63/000/C02/015/020 B144/B186

AUTHORS: Gurgenidze, G. T., Kolesnikov, G. S., and Li Fyn-ying

TITLE: Carbochain polymers and copolymers. Communication 51. Graft copolymers from aliphatic w-hydroxycarboxylic acids and the copolymer of styrene with N-(w-carboxy-n-hexyl)methacryl amide

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 2, 1963, 365 - 368

TEXT: Based on previous studies (Izv. AN SSSR. Otd. khim. n. 1962, 897), graft copolymers were obtained by polycondensing ω-hydroxy enanthic (I), or ω-hydroxy pelargonic acid (II), with the 50:1 copolymer (III) of styrene and N-(ω-carboxy-n-hexyl) methacryl amide obtained at 80°C in the presence of benzoyl peroxide. For III, the thermomechanical properties, the intrinsic viscosity (0.43 dl/g), the mean composition (C 91.81 %, H 7.77 %), and the Huggins' factor (0.43) were determined. The length of the side chains of the graft copolymer depended on the ratio of III to I or II. Polycondensation was effected in chloro benzene at 130 - 135°C in the presence of 2 % by weight p-toluene sulfonic acid (with respect to I or II) within 30 hrs. The length of the polyester side chains was derived from the C content of the Card 1/2

Carbochain polymers and ...

S/062/63/000/002/015/020

graft copolymers according to the formula published previously. It increased with increasing initial concentrations of I or II. The increasing Huggins' factor and decreasing intrinsic velocity prove that the symmetry of the macromolecules is enhanced when the side chains grow longer. For side chains, with equal polymerization coefficients, the symmetry was higher in the graft copolymers of II than in those of I, correspondencing to a longer main chain in the polyester of II. This supports an earlier suggestion (Vysokomolek. soyed. 1, 1733 (1959)) that the symmetry depends on the interaction of the side chains in the macromolecule. The ordering of the graft copolymers increased with increasing length of the side chains. Methanolysis effected complete splitting-off of the graft side chains; its final product had the same intrinsic viscosity and Huggins' factor as the initial copolymer. The softening point decreased when the side chains grew longer. This proves that the side chains (interdistance 133) have only a plastifying effect. There are 1 figure and 1 table.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

SUBMITTED:

April 2, 1962

Card 2/2

CIA-RDP86-00513R000617430004-6" **APPROVED FOR RELEASE: 03/20/2001**

s/190/65/005/004/007/020 B101/8220

AUTHORS:

Kolesnikov, G. S., Gurgenidze, G. T.

TITLE:

Carbochain polymers and copolymers. XLV. Grafted copolymers from ω -hydroxy enanthic polyester methacrylate and styrens

or vinyl acetate

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 4,1963, 524-530

TEXT: ω -hydroxy enanthic polyester methacrylate (HEFM), the synthesis of which has been described already (Vysokomolek. soyed., 4, 1709, 1962), was copolymerized with styrene in evacuated ampoules at 70°C for 15 hr in the presence of 1.7 weights benzoyl peroxide (related to styrere). The weight ratio styrene: HEPM was 83.86: 16.14, molar ratio 300:1. The weight ratio styrene: HEPM was 83.86: 16.14, molar ratio 300:1. The polymer was fractionated by precipitating with methanol at 20°C; the intrinsic viscosity, the Euggins number and the distance Q between the grafted HEPM branches was determined, expressed in styrene links. The first fraction consisted of polystyrene. For the fractions 2 - 7, [7] decreased from 0.475 to 0.230, the Huggins number increased from 0.29 to 1.88, and Q dropped from 3420 to 3. The absence of inflexions in the thermomechanical curves confirmed that this is a case of true grafted poly-Card 1/2

Carbochain polymers and ...

S/190/63/005/004/007/020 B101/B220

mers and not of mixtures. X-ray analysis showed that the ordering of the copolymer increased with decreasing Q. HEPM was copolymerized with vinyl acetate for 30 hrs at 70°C in the presence of 0.2 % azoisobutyric dinitrile (related to vinyl acetate). Here again [7] decreased and the Huggins number increased with increasing grafting. The thermomechanical curves became flatter when Q increased, showing that the EEPM side branches had a plasticizing effect only. There are 3 figures and 5 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (In-

stitute of Elemental Organic Compounds AS USSR)

SUBMITTED:

September 18, 1961

Card 2/2

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| , | Gurgenidze, G. T. | |
| | Thetitute of Thorganic Chemistry and | _ |
| Floatpo | homistry. Tiflis (Akademiya nauk didzinato) | |
| neorgan | icheskoy khimii i elektrokhimii) | ١. |
| TITLE: | Catalytic copolymerization of methylmethacrylate with the ylate polyester of omega-hydroxyenanthic acid | |
| SOURCE: | AN GruzSSR. Soobshcheniya, V. 41, no. 1, 1966, 61-65 | |
| copolym | AGS: catalytic polymerization, copolymerization, block erization, polyester plastic, polymerization catalyst, polymer re, methylmethackylate | |
| ABSTRAC (MMA) w | T: The catalytic graft copolymerization of methylmethacrylate ith the methacrylate polyester of ω-hydroxyenanthic acid (MPOE) | ce |
| was stu | with the methacrylate polyester of wanydroxyenanthic documents of the present died. The catalytic copolymerization was effected in the present lithium in toluene solution under nitrogen atmosphere at -50 to As the MPOE content of the copolymer was increased the reaction acreased, the number of grafted links increased, characteristic | |
| time in | creased, the number of grafted links included, | |
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| , viscosity | decreased but melting tempe | basic chain erature was | length remairaised and th | ned essentially e ordered struc has: 2 figures | ture of and 2 |
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| the synthe | esized polymera | THOTEGREG. | 0128. | _ | |
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The bottom of the control to the bottom of the control of the cont EWT(m)/EWP(j)/T: IJP(c) L 00813-67 ACC NR: AP6028029 SOURCE CODE: UR/0251/66/042/001/0073/0078 AUTHOR: Gurgenidze, G. T. ORG: Institute of Inorganic Chemistry and Electrochemistry. Academy of Sciences Georgian SSR (Institut neorganicheskoy khimii i elektrokhimii, Akademiya nauk Gruzinskoy SSR) TITLE: Synthesis of graft copolymers on the basis of isotactic polymethylmethacrylate and heterochain complex polymers SOURCE: AN GruzSSR. Soobshcheniya, v. 42, no. 1, 1966, 73-78 TOPIC TAGS: copolymer, graft copolymers, polyester, polymethylmethacrylate, copolymerization, heterochain complex ABSTRACT: The author, uses two methods to obtain graft copolymers from isotactic polymethylmethacrylate (PMMA) with a heterochain complex polyester. The first method is the transesterification reaction, and the second is the catalytic copolymerization of methylmethacrylate (MMA) with a polymer containing one unsaturated terminal group. Their properties in solution and in condensate are shown. Card 1/2

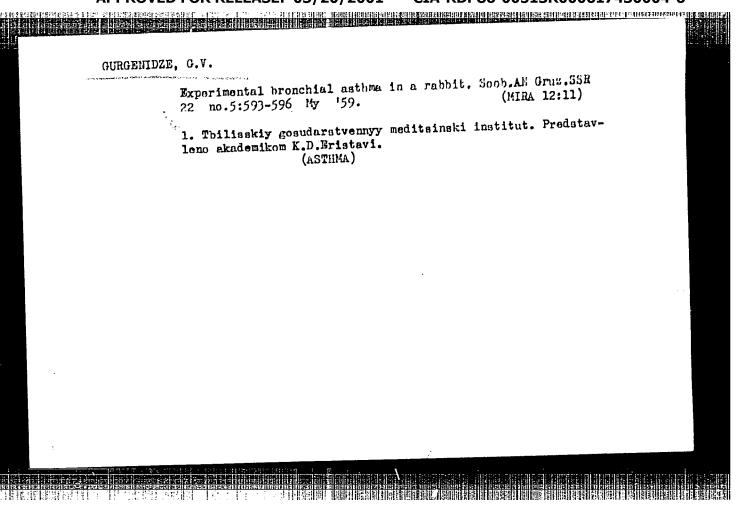
ACC NR: AP6028029

The author shows that catalytic copolymerization of methylmethacrylate (MMA) with the methacrylate of a polyester from Omegahydroxyenanthic acid (MPOE) can produce graft copolymers for which the mean statistical values of grafting frequency can be determined. Part of the experimental work was done at the Laboratory of Organo-elemental Carbochain Polymers of the Institute of Organoelemental Compounds,

Academy of Sciences SSSR, under the direct supervision of G. S. Kolesnikov. The article was presented by academician R. I. Agladze on 19 March 1965. Orig. art. has: 4 figures and 1 table.

SUB CODE: 07/ SUBM DATE: 19Mar65/ ORIG REF: 007/

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| | t copolymers with known mean statistical values of the graft- of the side branches |
| ing frequency and length | |
| 10-1-1-1-1 | Pant TT. Abs. 55256 |
| REF SOURCE: Sb. Issled. 1965, 102-111 | v obl. elektrokhimii i radiats. khimii. Tbilisi, Metsniyereba |
| TOPIC TAGS: graft copoly AESTRACT: Copolymers of | ω-carboxy-n-hexyl methacrylate and N-(ω-carboxy-n hexyl methacrylate |
| ω-hydroxypetargonic act | cal values of the grafting frequency and tengon the |
| grafting frequency and l [Translation of abstract | O11B 011 |
| l . | |



GURGENIDZE, G.V., kard. med. nauk; KANDELAKI, D.P., red.izd-va; KHUNDADZE, Z.G., tekhn. red.

[Materials on the pathogenesis of bronchial asthma] Materialy k pathogenezu bronkhial noi astmy. Tbilisi, Gos. izd-vo Babchota Sakart-velo, 1960. 118 p. (MIRA 14:7)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

GURGENIDZE, G.V.; MAISAYA, V.R.; SUKHARULIDZE, A.I.

Effect of aminazine on the blood sugar level. Soob. An Gruz.

Effect of aminazine on the intoo Bagar 19701.

SSR 25 no. 4:413-416 0 '60.

(MIRA 14:1)

1. Ministerstvo zdravockhraneniya Gruzinskoy SSR, Nauchnoissledovatel skaya laboratoriya pitaniya, Tbilisi. Predstavleno akademikom K.D. Eristavi. (CHLORPROMAZINE) (BLOOD SUGAR)

GURGENIDZE, G. V.

Doc Med Sci - (diss) "Clinico-experimental materials on the pathogenesis of bronchial asthma." Tbilisi, 1961. 24 pp; (Tbilisi State Medical Inst); 180 copies; free; (KL, 6-61 sup, 234)

GOGNIASHVILI, Sh.I.; GURGENIDZE, G.V.; RACHVELISHVILI, B.Kh.

Treatment of bronchial asthma with hormonal preparations.
Soob. AN Gruz. SSR 27 no.6:793-796 D '61. (MIRA 15:2)

1. Tbilisskiy gosudarstvennyy meditsinskiy institut. Predstavleno akademikom K.D.Eristavi.
(ASTMMA)
(HORMONE THERAPT)

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USSR / Cultivated Plants. Fruits, Berries

L-6

Abs Jour : Ref Zhur - Biol., No 6, March 1957, No 22829

Author : Gurgenidze, M.G.

Inst : Not Given

Title : How to Promote the Germination of Stone Seeds.

Orig Pub : Sad i ogorod, 1956, No 6, 45-46

Abstract : A very simple method is proposed for destroying the solidity

of the outer cover in stone seeds. The seeds are soaked in water for several days and are then spread in the sun, as a result of which the seed shell splits. These seeds

germinate best when sown in the month of October.

Card : 1/1

GURGENIDZE, M.G.

Materials on the biology of a walnut. Izv. AN Arm. SSR. Biol. nauki 13 no.5:73-79 My '60. (MIRA 13:9)

1. Opytnaya stantsiya plodovodstva Ministerstva seliskogo khosyaystva Gruzinskoy SSR, selo Skra, Goriyskogo rayona GruzSSR.

(WALNUT) (GRAFTING)

CIA-RDP86-00513R000617430004-6 GURGENIDZE, M.Z. Results of the application of the herbicide 2,4-D on summer pastures. Vest. Bot. ob-va Gruz. SSR. no.1:123-130 '62. (MIRA 17:1)

30V/ 105-58-7-16/32

AUTHORS:

Gurgenidze, M. Z., Engineer, Sevryugin, I. K., Engineer

里主想53:

Device for the Measurement of the Angle Between the Voltageand EMF-Vectors of a Synchronous Machine (Ustroystvo dlya izmereniya ugla mezhdu vektorami napryazheniya i e.d.s.

sinkhronnoy mashiny)

FRIONICAL:

Elektrichestvo, 1958, Nr 7, pp. 65 - 67 (USSR)

ABSTRACT:

A somewhat more accurate method for the determination of the static and dynamic overload capacity of a synchronous machine by means of the angle-characteristic of the power developed in the case of different modes of operation is described. Construction can be carried out in the completest manner according to the oscillographic recordings of the changes of the actual efficiency and of the angle 0 both in the case of slow and of rapid changes of load. The device for measuring the angle 0 must warrant continuous recording. The most promising was the device for measuring the angle 0, which was carried out according to the circuit developed by the Institute of Water Power Engineering AS of the

Card 1/3

Armer am 33R (Ref 4). This construction, however, entails

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

\$0V/105-58-7-16/32

Device for the Measurement of the Angle Between the Voltage- and EMF-Vectors of a Synchronous Machine

a distortion of the linear relation between the angle θ and the voltage at the filter output. This fault was corrected in the device designed according to the new circuit (which is given here). The results obtained by the experimental examination of this device are described by oscillograms. The data obtained from tests show that this device may be used for the investigation of the enforced oscillations of the synchronous machines (oscillations with high angular accelerations), as well as of the free oscillations (with low angular accelerations). This device may also be used as a linear angular transmitter in connection with verious control devices. There are 4 figures and

Sowiet references.

ASSOCIATION: Institut elektromekhaniki akademii nauk SSSR

(Institute of Electromechanics, AS USSR)

SUBMITTED: July 15, 1957

Card 2/3

| 50V103-58-7-16/32 Device for the Mensurement of the Angle Between the Voltage- and aMr-Vectors of a Synchronous Machine | |
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| 1. ElectromotorsTesting equipment 2. OscillographsApplications | |
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| Card 3/3 | |
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GURGENIDZE, M.Z., inzh.

Method for testing the warming-up of an asynchronous motor with a phase-wound rotor winding. Vest. elektroprom. 31 no.8:35 Ag '60.

(Electric motors, Induction)

GURGENIDZE, M.Z., inzh.; MASKHARASHVILI, E.G.; KARELI, N.I., inzh.

Use of "exkapone" insulating materials in the traction motors of main line electric locomotives. Vest. elektroprom. 34 no.5:
15-18 My '63.

(Electric railway motors)

(Electric insulators and insulation)

GURGENIDZE, N.I., starshiy nauchnyy sotrudnik (Tbilisi, Sovetskaya ul., dom.16)

Restoration of the ligament apparatus of the knee joint with a capron cord. Ortop., trawm. i protez. 26 no.8:11-16 Ag '65.

(MIRA 18:9)

1. Iz Tbi'isskogo instituta trawmatologii i ortopedii (dir.-doktor med. nauk B.Sh. TSereteli).

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R000617430004-6"

Gurgenidze, I.I., Cand Med Sci -- (diss) "Intraosseous "ixation when the fractures of the rib diaphysis by a nutil bar." Tbilisi, 1957. 19 pp. (Tbilisi State Med Inst).

200 copies. (KL, 9-58, 122)

| RGENIDZE, H. L | |
|---|--|
| My-Je- 157. (MIRA 10:9) | |
| 1. Iz otdeleniya trovmatologii (zav kandidat meditsinakikh nauk G.I.Ratishvili) Thilizakogo nauchno-isalelovateliskogo instituta travmatologii i ortopedii (dir kandidat meditsinakikh nauk B.Sh. TSereteli) (PRLVISFRACTURE) | |
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GURGENIDZE, N.I., kand.med.nauk

Our experinece in intramedullary nailing in fresh, closed fractures, and old, poorly united fractures of the femoral diaphysis. Ortop. travm. 1 protes. 20 no.9:75 S 159. (MIRA 13:2)

1. Is otdeleniya travmatologii (saveduyushchiy - doktor med.nauk G.I. Ratishvili) Toilisskogo nauchno-issledovateliskogo instituta travmatologii i ortopedii (direktor - kand.med.nauk B.Sh. TSereteli). (FEMUR--FRACTURE)

GURGENIDZE, N. I., kand. med. nauk (Tbilisi, Sovetskaya ul., d. 16)

Plastic restoration of the cruciform ligament of the knee joint. Vest. khir. no.12:64-66 '61. (MIRA 15:2)

l. Iz travmatologicheskogo otdeleniya Tbilisskogo nauchno-issledovatel'skogo instituta travmatologii i ortopedii (dir. - dotsent
G. G. Tatishvili)

(KNEE_SURGERY) (LIGAMENT_TRANSPLANTATION)

GURGENIDZE, N.I., kand.med.namk; (Tbilisi, Sovetskaya ul., d.16.); AMIREEGOVA, Ye.D.

Robational displacements in supracondylar fractures of the humerus.

Vest.khir. 89 no.8:18-20 Ag '62. (MIRA 15:10)

1. Iz otdeleniya travmatologii Tbilisskogo nauchno-issledovatel'-skogo instituta travmatologii i ortopedii (dir. - dotsent G.G.

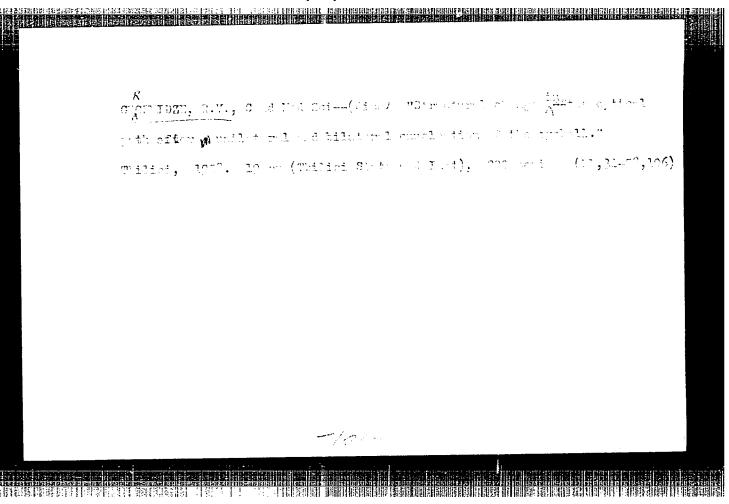
Tatishvili). (HUMEROUS-FRACTURE)

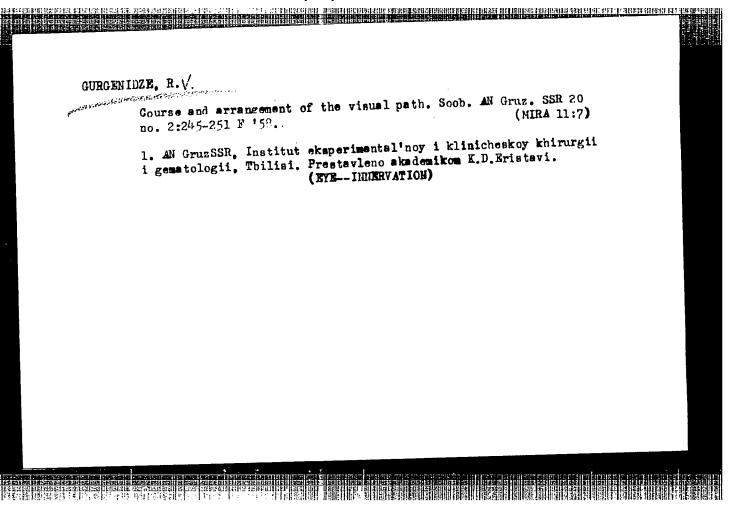
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GURGENIDZE, N.I.

Plastic restoration of the ligament apparatus of the knee joint by preserved homofascia. Soob. AN Gruz. SSR 39 nc.1: 213-218 Jl .65. (MIRA 18:10)

1. Nauchno-issledovatel'skly institut travmatologii i ortopedii, Thilisi. Submitted July 27, 1964.





KHRAMELASHVILI, N.G.; GURGENIDZE, R.V.

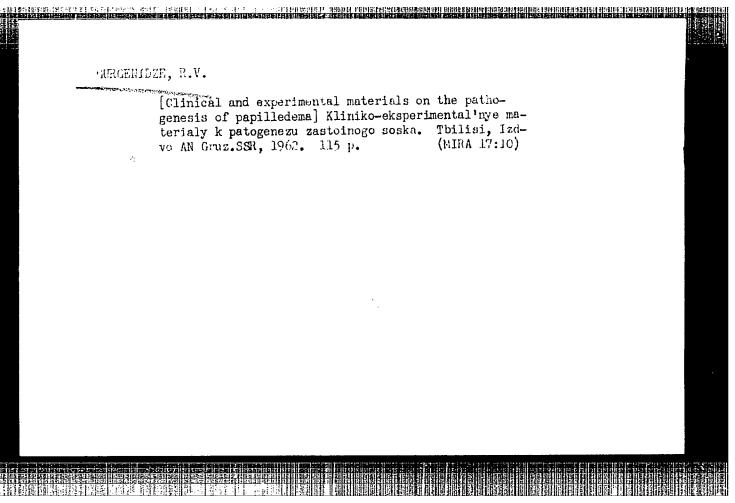
Use of a new ganglion-blocking preparation ganglerone in ophthalmological practice. Vest.oft. 72 no.6:36-37 N-D '59.

(MIRA 13:5)

1. Klinika glaznykh bolezney Tbilisekogo gosudarstvennogo instituta
dlya usovershenstvovaniya vrachey.

(AUTORNIC IRUSS ther.)

(RYE DISMASES ther.)



GUZIENIDZE, V. M.—Stantsii I uzly. Tbilist, "Tekhnika da shroma,"

7833. GRifienidze, V. M.—Stantsii I uzly. Tbilist, "Tekhnika da shroma,"

1954, 27 sm.—na gruz. yaz. 2. 270 s. s. ill.; 3 L. skhom 1,000 ekz.

1954, 100 ekz.

1954, 100 ekz.

1954, 100 ekz.

1955 s. 265-266 (56 Nazv.)--(55-3010)

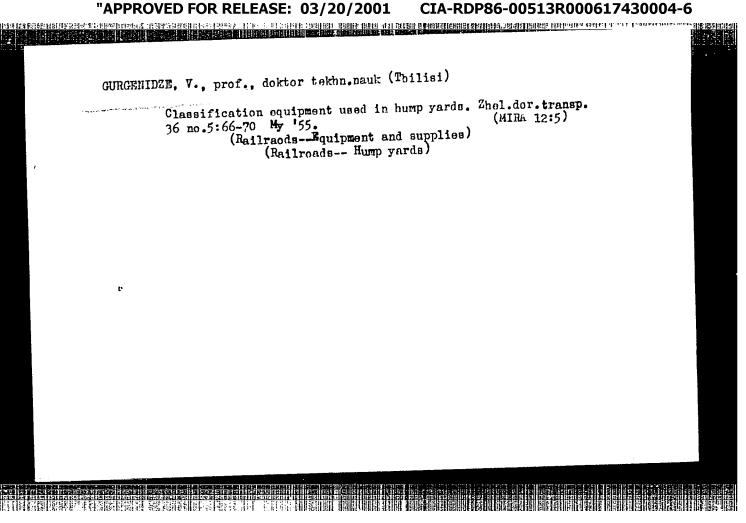
656.21t [016.3]

So: Knizhuaya Letopis', Vol. 7, 1955

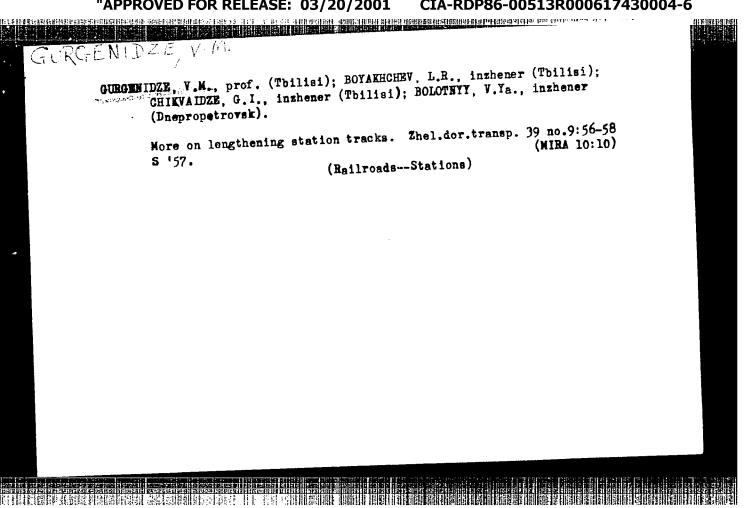
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GURGENIDZE, Vladimir Mikhaylovich, professor, doktor tekhnicheskikh namk; SKALOV,K.Yu., redaktor; VERINA,G.P., tekhnicheskiy redaktor

> [Spur tracks; principles of designing and using] Ulavlivaiushchie tupiki; osnovy proektirovaniia i ekspluatatsii. Moskva, Gos.transp. zhel-dor. izd-vo. 1955. 68 p. (MIRA 9:3) (Railroads--Track)



CIA-RDP86-00513R000617430004-6" APPROVED FOR RELEASE: 03/20/2001



CIA-RDP86-00513R000617430004-6" APPROVED FOR RELEASE: 03/20/2001

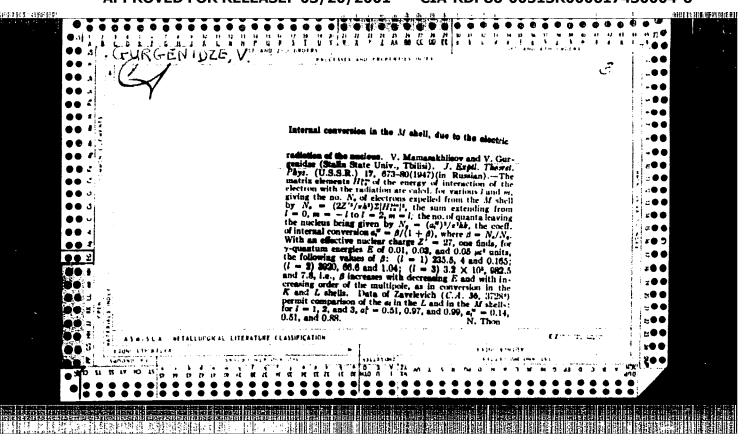
GURGENIDZE, Vladimir Mikhaylovich, doktor tekhn. nauk, prof., zaslushennyy deyatel nauki i tekhniki Gruzinskoy SSR; BOYAKHCHEV, L.R., red.; ABRAMISHVILI, T.A., red. izd-va; MEGRELADZE, A.G., tekhn. red.

[Railroad stations with classification yards on an incline] Zhelez-nodorozhnye stantsii s sortirovochnymi ustroistvemi na uklonakh. Tbilisi, Gos. izd-vo uchebno-pedagog. lit-ry "TSodna," 1961. 148 p. (MIRA 14:11)

(Railroads-Hump yards)

GURGENIDZE, V.M.; BOYAKHCHEV, L.R. [deceased]

Efficient arrangement of station necks. Trudy (PI [Gruz.] no.7;29-38 '63. (MIRA 18:6)



GURGENIDZE, V.

USSR/Nuclear Physics - Bombardment
Ionization
Pair Production

Aug 49

"Radiation of the Ultraluminous Type During the Passage of Charged Particles Through a Ferromagnetic," D. Ivanenko, V. Gurgenidze, Moscow State U imeni M. V. Lomonosov, Tbilisi State U imeni I. V. Stalin, 4 pp

"Dok Ak Nauk SSSR" Vol LXVII, No 6

Attempts to show that when charged particles pass through a ferromagnetic, along with ionization losses, radiation of the ultraluminous Cherenkov type if v (speed of particle) exceeds $c/m_0^{\frac{1}{2}}$, where m_0 is the static magnetic permeability of the medium (where $e=n^2$ is set equal to 1), n being the index of refraction, must occur. Submitted by Acad S. I. Vailov 28 Jun 49.

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